

p 4



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	Art Unit:
PEDERSEN, et al.)	Examiner:
Serial No.: 10/507,121)	Washington, D.C.
Filed: March 17, 2005)	April 26, 2005
For: AN IMPROVED METHOD FOR)	Docket No.: PEDERSEN=9
SYNTHESISING TEMPLATED)	
MOLECULES)	Confirmation No.: 8893

INFORMATION DISCLOSURE STATEMENT [IDS]

U.S. Patent and Trademark Office
Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

S i r :

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it is filed:

[X] A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application. See 37 CFR 1.97(b)(1) and (3).

[] B. before the mailing date of a first office action on the merits. See 37 CFR 1.97(b).

[] C. after (A) and (B) above, but before final rejection or allowance, and Applicants have made the necessary certification (box "i" below) or paid the necessary fee (box "ii" below). See 37 CFR 1.97(c)(2).

[] i. Counsel certifies that, upon information and

belief, each item of information listed herein was either (a) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS or (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

- [] ii. Credit Card Payment Form, PTO-2038, authorizing payment for the fee set forth in 1.17(p), presently believed to be \$180, is attached.

[] D. after (A), (B) and (C) above, but before payment of the issue fee. Applicant petitions under 37 C.F.R. 1.97(d) for consideration of this IDS. A Credit Card Payment Form, PTO-2038, authorizing payment for the fee set forth in 1.17(p)(1), presently believed to be \$180 is attached. Counsel certifies that, upon information and belief, each item of information listed herein was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS or (ii) was not cited in a communication from a foreign patent office in a counterpart foreign application and was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.

[] E. As a submission in accordance with the transitional procedure for limited examination after final rejection pursuant to 37 CFR §1.129(a). Pursuant to MPEP §706.07(g), page 700-66, col. 2 (August 2001), this IDS is treated as if filed with a period set forth in 37 CFR §1.97(b) and considered without the petition and petition fee required by 1.97(d).

[] F. As a submission with or after a request for continued examination under CFR §1.114, and before the mailing of a first office action on the RCE. See 37 CFR §1.97(b)(4).

2. In accordance with 37 C.F.R. 1.98, this IDS includes a

list (e.g., form PTO-1449) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document is attached, except as explained below.

[] While an IDS filed under §1.97 must contain a "list of all patents, publications or other information submitted for consideration by the Office", see §1.98(a) (1), the only requirement for the list is that it provide the information set forth in §1.98(b). There is no requirement that a form PTO-1449 be used (MPEP §609 merely says that use of this form is "encouraged"). Counsel has used a list provided to him by Applicants, and not transferred the information to a PTO-1449, to avoid the risk of any inadvertent error in transferring the information.

[X] A. Documents FN-GQ are U.S. Patents or U.S. Patent Publications, and hence copies of these documents have not been provided. See 37 CFR 1.98(a) (2) (ii).

[] B. Documents _____ are deemed substantially cumulative to documents _____, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.

[X] C. Documents 1-53, AA-AM, BA-DO, EA-FM, GS-GV, GZ-HZ, HE-HF, HI, IB-IF, IH-IN, JN, JP-JQ, JS-JZ, KB-KE, and KJ-KT were all previously cited by or submitted to the Office in the following prior application(s), which are relied upon under 35 U.S.C. 120:

10/175,539, filed June 30, 2002.

Applicants identify these documents by attaching hereto copies of the form PTO-892s and PTO-1449s from the files of the prior applications or a fresh PTO-1449 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application. If copies of any of these documents cannot be found in the files of the prior applications, the Examiner is requested to so notify counsel before taking action in this case, so replacement copies can be submitted.

While an IDS filed under §1.97 must contain a "list of all patents, publications or other information submitted for consideration by the Office", see §1.98(a) (1), the only requirement for the list is that it provide the information set forth in §1.98(b). There is no requirement that a form PTO-1449 be used (MPEP §609 merely says that use of this form is "encouraged") and no prohibition on submitting a copy of a form PTO-1449 or form PTO-892 from a prior case. Indeed, the re-use of such forms is desirable as it avoids error in transferring the information, and evidences that the reference was considered in a prior application. A previously accepted PTO-1449, or an examiner-prepared PTO-892, necessarily complies with §1.98(b).

[X] 3. Document HJ is not in the English language. In accordance with 1.98(a)(3), Applicants state:

- [] documents _____ already contain an English language abstract, summary or claim set.
- [X] a publicly available abstract is attached to document HJ, and the source of the abstract is indicated thereon.
- [] documents _____ are patents or published patent applications for which counterpart English language patents or patent applications exist, and are enclosed, as follows:

<u>Foreign Lang. Doc.#</u>	<u>English Lang. Doc.#</u>
[insert]	[insert]
- [] applicants have prepared an English translation of at least the pertinent portions of documents _____, and copies are attached.
- [] A concise explanation of the relevance of documents _____ is found in the attached search report from the _____ Patent Office (see reply to Comment 68 in the preamble to the final rules; 1135 OG 13 at 20).
- [] A concise explanation of the relevance of documents _____ appears in the present specification.
- [] A concise explanation of the relevance of documents _____

_____ is set forth as follows:

[Insert concise explanation of relevance]

4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

5. If the month of publication of a nonpatent reference is not stated, it is because it is not apparent from review of the reference. If requested to do so by the Examiner, Applicants will attempt to locate and write to the publisher.

If the publication date of a cited document is set forth only as a publication year, and that year is prior to the year of filing or, if priority is claimed, year of priority of this application, then the particular month of publication is not in issue. Likewise if that publication year is after the year of filing of this application, the month of publication is not in issue.

If the date of publication of a nonpatent reference is stated, then, except as explained below, it is the nominal date stated in the reference, or in a larger document (journal or book) from which the reference was extracted. Applicants reserve the right to challenge this date by contacting the publisher to determine the actual shipment date, or by contacting recipients to determine the receipt dates.

6. Other information being provided for the examiner's consideration follows:

[insert other information]

7. In accordance with 37 C.F.R. 1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant reserves the right to prove that the date of publication is in fact different.

USSN - 10/507,121

8. The Commissioner is hereby authorized and requested to charge any additional fees which may be required in connection with this paper or credit any overpayment to Deposit Account No. 02-4035.

Respectfully submitted,

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT
LIST DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

ATTY DOCKET NO: PEDERSEN-9

SERIAL NO: 10/507,121

APPLICANT: Henrik PEDERSEN et al

FILING DATE: March 17, 2005

CONFIRMATION NO: 8893

U.S. PATENT DOCUMENTS (include at least patentee, patent number and issue date)

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROP.
	FN	6	4	2	9	3	0	0	Aug 6, 2002	Kurz, M et al.			
	FO	6	2	0	7	4	4	6	Mar 27, 2001	Szostak, J et al.			
	FR	9	1	4	3	9	0	3	Nov 7, 2000	Baskerville, DS et al.			
	FR	9	9	2	4	9	8	7	Sept 16, 2002	Taussig, MJ et al.			May 28, 1998
	FR	20	03	04	1	2	2		Jan 2, 2003	Beigelman et al.			April 4, 2001
	FS	5	5	0	0	0	8	8	Jul 15, 2003	Saito, I et al.			Aug 24, 2000
	FT	5	5	7	7	6	0	3	Nov 5, 1991	Gryaznov, SM et al.			
	FU	5	4	7	0	6	0	0	Dec 19, 1995	Letsinger, RL et al.			
	FV	5	9	6	4	9	0	3	Oct 28, 1997	Letsinger, RL et al.			
	FW	5	4	0	0	6	0	3	Jul 14, 1998	Letsinger, RL et al.			
	FX	5	7	1	1	6	0	0	Apr 21, 1998	Gryaznov, SM et al.			
	FX	5	6	0	0	6	0	0	Nov 3, 1998	Gryaznov, SM et al.			
	FZ	9	9	4	3	9	5	0	Dec 1, 1998	Segev, D			
	GA	5	5	6	3	6	0	5	Apr 2, 1993	Sugarman et al.			
	GB	5	6	3	6	6	0	3	Jun 17, 1997	Dower et al.			
	GC	5	6	6	6	9	7	5	Sep 9, 1997	Kedar et al.			
	GD	5	7	6	6	1	5	3	Jan 13, 1998	Dower et al.			
	GE	5	7	7	6	3	5	8	Jun 23, 1998	Dower et al.			
	GI	5	7	6	9	1	6	2	Aug 4, 1998	Dower et al.			
	GC	6	6	6	6	2	0	0	May 2, 2000	Sugarman et al.			July 23, 1996
	GH	6	1	4	6	4	0	3	Oct 31, 2000	Dower et al.			Sept 11, 1998
	GI	6	1	4	3	4	9	7	Nov 2, 2000	Dower et al.			Mar 6, 1998
	GJ	6	1	6	6	7	1	7	Dec 26, 2000	Dower et al.			May 13, 1998
	GK	6	1	6	6	7	7	8	Dec 26, 2000	Kedar et al.			Jul 2, 1998
	GL	6	4	1	6	9	4	9	July 9, 2002	Dower et al.			Feb 24, 1999
	GM	5	5	7	3	9	0	5	Nov. 12, 1996	Lerner, RL et al.			
	GN	5	7	2	3	5	9	8	Mar 3, 1998	Lerner, RL et al.			Mar 3, 1998
	GO	6	0	6	0	5	9	6	May 9, 2000	Lerner, R et al.			
	GP	4	8	2	2	7	3	1	April 18, 1989	Watson et al.			
	GQ	5	7	6	3	2	6	3	9 Jun 1998	Dehlinger, PJ			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT LIST DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO: PEDERSEN=9	SERIAL NO: 10/507,121
	APPLICANT: Henrik PEDERSEN et al	
	FILING DATE: March 17, 2005	CONFIRMATION NO: 8893

FOREIGN PATENT DOCUMENTS (include at least document number, publication date and country)													
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES/NO
	GR	9	3	0	3	1	7	2	18 Feb 1991	PCT			
	GS	9	8	3	1	7	0	0	23 July 1998	PCT			
	GT	0	0	3	2	8	2	3	8 June 2000	PCT			
	GU	0	0	4	7	7	7	5	17 Aug 2000	PCT			
	GV	9	0	0	5	7	8	5	31 May 1990	PCT			
	GW	0	3	2	4	6	1	6	19 July 1989	EP			
	GX	9	6	3	5	6	9	9	14 Nov 1996	PCT			
	GY	0	6	9	5	3	0	5	27 October 1994	EP			
	GZ	0	6	0	4	5	5	2	1 April 1993	EP			
	HA	9	5	1	2	6	0	8	11 May 1995	PCT			
	HB	0	7	7	3	2	2	7	14 May 1997	EP			
	HC	0	7	7	6	3	3	0	4 Oct 1996	EP			
	HD	0	6	4	3	7	7	8	14 Oct. 1993	EP			
	HE	0	0	2	3	4	5	8	27 April 2000	PCT			
	HF	20	04	01	6	7	6	7	26 Feb 2004	PCT			
	HG	0	1	0	0	8	7	6	4 Jan. 2001	PCT			
	HI	9	6	1	2	0	1	4	25 April 1996	PCT			
	HJ	19	6	4	2	7	5	1	23 April 1998	DE			Eng. Abstract
	HK	9	7	3	5	1	9	8	25 Sept. 1997	PCT			
	HL	02	1	0	3	0	0	8	27 Dec 2002	PCT			
	HM	02	1	0	2	8	2	0	27 Dec 2002	PCT			
	HN	20	04	01	3	0	7	0	12 Feb 2004	PCT			
	HO	20	04	11	0	9	6	4	23 12 2004	PCT			
	HP	20	04	02	4	9	2	9	25 March 2004	PCT			
	HQ	20	04	05	6	9	9	4	8 July 2004	PCT			
	HR	03	0	7	8	4	4	5	25 Sept. 2003	PCT			
	HS	03	0	7	8	6	2	6	25 Sept 2003	PCT			
	HT	03	0	7	8	0	5	0	25 Sept 2003	PCT			
	HU	03	0	7	8	4	4	6	25 Sept 2003	PCT			
	HV	03	0	7	8	6	2	7	25 Sept 2003	PCT			
	HW	20	04	07	4	5	0	1	2 Sept 2004	PCT			
	HX	20	04	07	4	4	2	9	2 Sept 2004	PCT			
	HY	20	04	08	3	4	2	7	30 Sept 2004	PCT			
	HZ	20	04	03	9	8	2	5	13 May 2004	PCT			
	IA	20	04	00	1	0	4	2	31.12.2003	PCT			
	IB	20	05	0	3	7	7	8	13 Jan 2004	PCT			

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	APPLICANT: Henrik PEDERSEN et al	
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OTHER DOCUMENTS (include author, title, name of publication, volume, pages & date of publication)	
IC	Nemoto, N et al. "In vitro virus: bonding of mRNA bearing puromycin at the 3'-terminal end to the C-terminal end of its encoded protein on the ribosome in vitro". FEBS Lett. 1997 Sep 8;414(2):405-8.
ID	Roberts, RW et al. "RNA-peptide fusions for the in vitro selection of peptides and proteins". Proc Natl Acad Sci U S A. 1997 Nov 11;94(23):12297-302.
IE	Kurz, M et al. "An efficient synthetic strategy for the preparation of nucleic acid-encoded peptide and protein libraries for in vitro evolution protocols" Fourth International Electronic Conference on Synthetic Organic Chemistry (ECSOC-4), www.mdpi.org/ecsoc-4.htm , September 1-30, 2000
IF	Kurz, M et al. "Psoralen photo-crosslinked mRNA-puromycin conjugates: a novel template for the rapid and facile preparation of mRNA-protein fusions. Nucleic Acids Res. 2000 Sep 15;28(18):E83.
IG	Keiler et al. "Role of a peptide tagging system in degradation of proteins synthesized from damaged messenger RNA". Science. 1996 Feb 16;271(5251):990-3.
IH	Benner, SA. "Expanding the genetic lexicon: incorporating non-standard amino acids into proteins by ribosome-based synthesis". Trends Biotechnol. 1994 May;12(5):158-63
II	Mendel, D. "Site-directed mutagenesis with an expanded genetic code". Annu. Rev. Biophys. Biomol. Struct. 1995. 24:463-93
IJ	Liu DR et al. "Engineering a tRNA and aminoacyl-tRNA synthetase for the site-specific incorporation of unnatural amino acids into proteins in vivo". Proc Natl Acad Sci U S A. 1997 Sep 16;94(19):10092-7.
IK	Liu DR et al. "Progress toward the evolution of an organism with an expanded genetic code". Proc Natl Acad Sci USA. 1999 Apr 27;96(9):4780-5
IL	Liu, R et al. "Optimized synthesis of RNA-protein fusions for in vitro protein selection". Methods Enzymol. 2000;318:268-93.
IM	Wang, L et al. "A new functional suppressor tRNA/aminoacyl-tRNA synthetase pair for the in vivo incorporation of unnatural amino acids into proteins" J. Am. Chem. Soc. 2000, 122, 5010-5011 Pub 5 April 2000
IN	Ellman J.A., et al. "Biosynthetic method for introducing Unnatural Amino acids site specifically into proteins". Methods Enzymol. 202, 301-336 (1992)
IO	José Salas et al. "Biosynthetic Polydeoxynucleotides as Direct Templates for Polypeptide Synthesis". J. of Biological Chemistry, vol.243, No. 6, 1968, p. 1012-1015
IP	Walder JA, Walder RY, Heller MJ, Freier SM, Letsinger RL, Klotz IM. "Complementary carrier peptide synthesis: general strategy and implications for prebiotic origin of peptide synthesis". Proc Natl Acad Sci U S A. 1979 Jan;76(1):51-5.
IQ	Bruick et al. "Template-directed ligation of peptides to oligonucleotides" Chemistry and Biology, vol. 3, No. 1, January 1996, p.49-56;
IR	Tamura K, Schimmel P. "Oligonucleotide-directed peptide synthesis in a ribosome- and ribozyme-free system". Proc Natl Acad Sci U S A. 2001 Feb 13;98(4):1393-7.
IS	Lewis RJ, Hanawalt PC. "Ligation of oligonucleotides by pyrimidine dimers—a missing 'link' in the origin of life?" 22;298(5872):393-6.
IT	Liu J, Taylor JS. "Template-directed photoligation of oligodeoxyribonucleotides via 4-thiothymidine". Nucleic Acids Res. 1998 Jul 1;26(13):3300-4
IU	Fujimoto et al. "Template-directed photoreversible ligation of deoxyoligonucleotides via 5-Vinyldeoxyuridine" J. Am. Soc. 2000, 122, 5646-5647
IV	Kenzo Fujimoto, Shigeo Matsuda, Naoki Ogawa, Masayuki Hayashi & Isao Saito "Template-directed reversible photocircularization of DNA via 5-vinyldeoxycytidine". TETRAHEDRON LETTERS 2000, 41:33:6451-6454

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	APPLICANT: Henrik PEDERSEN et al	
INFORMATION DISCLOSURE STATEMENT LIST DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		CONFIRMATION NO: 8893
FILING DATE: March 17, 2005		

IV	Kenzo Fujimoto, Naoki Ogawa, Masayuki Hayashi, Shigeo Matsuda & Isao Saito "Template directed photochemical synthesis of branched oligodeoxynucleotides via 5-carboxyvinyldeoxyuridine". Tetrahedron letters 2000, 41:49:9437-40
IX	Letsinger et al. "Chemical ligation of oligonucleotides in the presence and absence of a template". J. Amer. Chem. Soc. 1993, 115, 3808-9
IY	Gryaznov SM, Letsinger RL. "Template controlled coupling and recombination of oligonucleotide blocks containing thiophosphoryl groups". Nucleic Acids Res. 1993 Mar 25;21(6):1403-8
IZ	Gryaznov SM, Schultz R, Chaturvedi SK, Letsinger RL. "Enhancement of selectivity in recognition of nucleic acids via chemical auto ligation". Nucleic Acids Res. 1994 Jun 25;22(12):2366-9.
JA	Hertlein MK, Letsinger RL. "Selective chemical auto ligation on a double-stranded DNA template". Nucleic Acids Res. 1994 Nov 25;22(23):5076-8
JB	Letsinger, RL; Wu, T; Elghanian, R "Chemical and photochemical ligation of oligonucleotide blocks". Nucleosides and nucleotides, 16(5&6), 643-652 (1997)
JC	Visscher J, Bakker CG, van der Woerd R, Schwartz AW "Template-directed oligomerization catalyzed by a polynucleotide analog". Science. 1989 Apr 21;244(4902):329-31.
JD	Visscher J, van der Woerd R, Bakker CG, Schwartz AW. "Oligomerization of deoxynucleoside-bisphosphate dimers: template and linkage specificity". Orig Life Evol Biosph. 1989;19(1):3-6.
JE	Zhan, ZJ and Lynn, DG "Chemical Amplification through template-directed synthesis". J. Am. Chem. Soc. 1997, 119, 12420-1
JF	Bruick RK, Koppitz M, Joyce GF, Orgel LE. "A simple procedure for constructing 5'-amino-terminated oligodeoxynucleotides in aqueous solution Nucleic Acids Res". 1997 Mar 15;25(6):1309-10
JG	Albagli, D; Atia, RVA; Cheng, P; Huan, B and Wood, ML. "Chemical amplification (CHAMP) by a continuous, self-replicating oligonucleotide-based system" J. Am. Chem. Soc. 1999, 121, 6954-6955. Pub. on the web 14 July 1999.
JH	Xu, Y and Kool, E "Rapid and Selective selenium-mediated auto ligation of DNA strands" J. Am. Chem. Soc. 2000, 122, 9040-1 Pub. on web 08/31/2000.
JI	Xu Y, Karalkar NB, Kool ET. "Nonenzymatic auto ligation in direct three-color detection of RNA and DNA point mutations". Nat Biotechnol. 2001 Feb;19(2):148-52.
JJ	Li X, Zhan ZY, Knipe R, Lynn DG. "DNA-catalyzed polymerization". J Am Chem Soc. 2002 Feb 6;124(5):746-7.
JK	Czapinski, JL and Sheppard, TL. "Nucleic acid template-directed assembly of metallosalen-DNA conjugates". J Am Chem Soc. 2001 Sep 5;123(35):8618-9 published on the web 08/10/2001
JL	Leitzel JC, Lynn DG "Template-directed ligation: from DNA towards different versatile templates". Chem Rec. 2001;1(1):53-62. Published online 30 Jan 2001.
JM	Schmidt JG, Nielsen PE, Orgel LE. "Information transfer from peptide nucleic acids to RNA by template-directed syntheses". Nucleic Acids Res. 1997 Dec 1;25(23):4792-4796.
JN	DOWER, WJ et al. "in vitro selection as a powerful tool for the applied evolution of proteins and peptides". Current Opinion in Chemical Biology, 2002, 6:390-399.
JO	David Liu. "Expanding the reaction scope of DNA-templated synthesis Angew". Chem. Int. Ed. 2002, 41, No. 10 pp. 1796-1800. Published May 15, 2002.
JP	Gartner, ZJ et al. "Multistep small-molecule synthesis programmed by DNA templates". J. AM. CHEM. SOC. Vol. 124, No. 35, 2002, 10304-10306.
JQ	Calderone, CT et al. "Directing otherwise incompatible reactions in a single solution by using DNA-templated organic synthesis". Angew Chem Int Ed, 2002, 41, No. 21, 4104-4108.

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if reference considered. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to applicant.	

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	APPLICANT: Henrik PEDERSEN et al	
	FILING DATE: March 17, 2005	CONFIRMATION NO: 8893

JR	Bittker, JA; Phillips, KJ and Liu, DR "Recent advances in the in vitro evolution of nucleic acids". Curr Opin Chem Biol. 2002 Jun;6(3):367-74. Review. Pub. on the web 20 th March 2002.
JS	Gartner, ZJ et al. "Two enabling architectures for DNA-templated organic synthesis". Angew. Chem Int. Ed. 2003, 42, No. 12, 1370-1375.
JT	Rosenbaum, DM et al. "Efficient and sequence-specific DNA-templated polymerization of peptide nucleic acid aldehydes". J. AM. CHEM. SOC. Vol. 125, No. 46, 2003, 13924-13925.
JU	Li, X et al. "Stereoselectivity in DNA-templated organic synthesis and its origins". J. AM. CHEM. SOC. Vol. 125, No. 34, 2003, 10188-10189.
JV	Gordon, EM et al. "Applications of combinatorial technologies to drug discovery. 2. Combinatorial organic synthesis, library screening strategies, and future directions". Journal of Medicinal Chemistry. Vol. 37, No. 10, May 13, 1994.
JW	Otto, S et al. "Recent developments in dynamic combinatorial chemistry". Current opinion in Chemical Biology 2002, 6: 321-327.
JX	Pavia, MR. "The Chemical generation of molecular diversity". http://www.netsci.org/Science/Combichem/feature01.html
JY	Braun, E, et al. "DNA-templated assembly and electrode attachment of a conducting silver wire". Nature, Vol. 391, 19 February 1998, 775-778.
JZ	Tanaka, K et al. "Synthesis of a novel nucleoside for alternative DNA base pairing through metal complexation" J. Org. Chem. 1999, 64, 5002-5003.
KA	Berger, M et al. "Universal bases for hybridization, replication and chain termination", Nucleic acids research, Oxford University Press, vol. 28, no. 15, pub. 1 Aug. 2000, p2911-2914.
KB	Weizman, H et al. "2,2'-Bipyridine ligandoxide: a novel building block for modifying DNA with intra-duplex metal complexes". J. Am. Chem. Soc. 2001, 123, 3375-3376.
KC	Frutos, AG et al. "Demonstration of a word design strategy for DNA computing on surfaces". Nucleic Acids Research, 1997, Vol. 25, No. 23, 4748-4757.
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	APPLICANT: Henrik PEDERSEN et al	
	FILING DATE: March 17, 2005	CONFIRMATION NO: 8893

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROP.
EA	00 00 00 42 6 6 6	Published 24 February 2005	Liu, David R			
EB	20 05 05 05 7 6 6	Published 3 February 2005	Liu, David R			

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ED	03 0 9 2 9 9 1	9 Oct 2003	PCT			
EE	0 1 0 0 0 0 0	18 April 1991	PCT			
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	FJ	Website of Prof. David R. Liu, publicly available 23 Sept 2001	
	FK	Website of Prof. David R. Liu, publicly available 24 Sept. 2002	
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	BB	6	2	6	7	4	4	6	Mar 27, 2001	Szostak, J et al.			
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	BG	9	6	3	9	6	0	3	Jun 17, 1997	Dower et al.			
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	BN	6	1	1	3	1	9	7	Nov 2, 2000	Dower et al.			Mar 6, 1998
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	BP	6	1	6	9	7	7	9	Dec 26, 2000	Kedar et al.			Jul 2, 1998
	BO	6	1	1	6	9	1	9	July 9, 2002	Dower et al.			Feb 24, 1999
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	BU	6	6	3	7	7	7	6	17 Aug 2000				
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	BX	6	6	6	2	6	6	6	11 May 1995	PCT			
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	BZ	0	7	7	6	3	3	0	4 June 1997	EP			
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	CC	9	9	1	7	9	1	1	25 April 1996	PCT			
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Sheet	1	of	2
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First Named Inventor	Henrik PEDERSEN
Group Art Unit	
Examiner Name	
Attorney Docket Number	PEDERSEN=9

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First Named Inventor	Henrik PEDERSEN
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	18	Letsinger, RL; Gryaznov, SM	Chemical ligation of template-directed	EP0830363A1/WO 96/35699

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	19	Letsinger, RL; Gryaznov, SM	Method of forming oligonucleotides	EP 0695305 Published 27 October 1994 Priority: 12 April 1993 Filed 6 April 1994
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